人山. 3M A敬精度的 Gauss-Legendre 独分农共需,利积分节... 点 $L_{2}(x) = \frac{1}{2^{2}} \frac{d^{2}(x^{2}-1)^{2}}{dx^{2}} = 0$ 解 $x_{0} = -\frac{15}{3}$ $x_{1} = \frac{15}{3}$ 拟在计门上的Gauss独为公式为 Gyf)= f(-学)+f(学)= 2 7 (2) $dx = \int \frac{1}{3} \frac{x^2 - x_1}{x_0 - x_1} dx = \int \frac{1}{3} \frac{x - \frac{x_2}{x_0}}{x_0 - x_1} dx = 2 + 2 \pi 3$ $d_1 = \begin{bmatrix} \frac{1}{2} & \frac{x-x_0}{x_1-x} & dx = \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{x+\frac{2}{3}}{2} & dx = 2-2\pi \end{bmatrix}$ 则在13 17上的 Gauss 被与信贷 Gof) = 2[(2+2两)+(-1+2乎)+(2-2两)+(++乎)] = -1-31.226 14. 三点.4月:取X=0、H X1=0、13 X2=0、よ」 $|A| f(x) = \frac{1}{2}(x) = \frac{f(x_0)}{x^2}(2x - x_1 - x_2) - \frac{f(x_0)}{2x^2}(2x - x_0 - x_1) + \frac{f(x_0)}{2x^2}(2x - x_0 - x_1)$